

Red Imported Fire Ant Work Plan Calendar Year 2010

Cooperator:	Kansas Department of Agriculture		
State:	Kansas		
Project:	Red Imported Fire Ant Survey		
Project funding source:	Priority Survey <input type="checkbox"/> State Discretionary Survey <input type="checkbox"/> Other Line Item Pest <input checked="" type="checkbox"/>		
Project Coordinator:	Laurinda Ramonda		
Agreement Number	10-8453-1227-CA		
Contact Information:	Address:	PO Box 19282, Forbes Field, Bldg 282, Topeka, Kansas 66619	
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This Work Plan reflects a cooperative relationship between the Kansas Department of Agriculture (KDA) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Red Imported Fire Ant survey and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

I. OBJECTIVES AND NEED FOR ASSISTANCE

This detection survey will gather data to determine the status of the Red Imported Fire Ant (RIFA) in areas identified as a high risk pathway to Kansas. This project will provide the funding for the operational expenses for conducting this survey. This survey would like to be done for 3 years at different sites each year to help minimize the impact of this pest to Kansas.

Survey data from this project will monitor several known pathways of possible introduction of this pest. It will also help ensure early detection of RIFA and provide an opportunity for eradication of this pest. Kansas Live Plant dealers received plant materials from 269 sources identified within or near the federal fire ant quarantine areas.

There have been 6 incidents of RIFA being introduced into Kansas. In every instance they had spread from the initial introduction site and in one case had overwintered here. Counties of past introductions have been in Johnson, Douglas, Sedgwick, Harvey and Crawford. The most recent find in the summer of 2009 was in Montgomery County from plant material received from Florida to a nursery.

This project will provide KDA and USDA-APHIS-PPQ, with information regarding the status of the target pest. This information can be used to determine appropriate response actions if positive finds are confirmed by USDA.

It is critical that this survey be funded in 2010 to be sure that RIFA was not introduced into the state of Kansas. This project cannot be carried out without financial assistance from USDA.

II. RESULTS OR BENEFITS EXPECTED

The Cooperator seeks to conduct a program which is expected to result in:

- Reduction to the risk of health, the agriculture industry and ecological diversity.
- Additional geographic assessment from data gathered.
- Identification of Red Imported Fire Ants, if present.
- Protection to the state of Kansas from the introduction of Red Imported Fire Ants.
- Prevention of plant health restrictions.
- Timely eradication if pest is found.

III. APPROACH

While the primary focus will be trapping in areas deemed the highest risk, some visual surveys will occur simultaneously. The survey will take place in June through July 2010. The main focus will be sites consisting of large nurseries where nursery stock is moved in the wholesale market.

Trapping will consist of pieces of SPAM (canned meat product) as bait with the spot marked with a surveyor flag. The bait will be checked after approximately 1 hour for the attraction of ants and then the ants will be collected that are on and/or around the bait. The bait flag will be removed if there are no ants. When ants are found, they will be collected in a vial of alcohol. Specimens will be checked by the state entomologist.

One trip per site will be made unless a positive is found for RIFA. Counties to be looked at the first year will possibly be Sedgwick, Johnson, Miami, Douglas, Shawnee, Finney, Ford, Riley, Montgomery, Crawford and Butler with approximately 30 sites trapped. This is dependent on funding.

A. The Cooperator and APHIS Mutually Agree to/that:

- Work together in carrying out field surveys, trapping, identification and data collection on RIFA that may pose an immediate risk to health, the agriculture industry, live plant dealer industry and ecological diversity of Kansas or the United States.
- Identification of RIFA and eradication efforts, if found.

1. What is the quantitative projection of accomplishments to be achieved?

- a. By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?**

1. June 2010-July 2010 – possibly the counties of Sedgwick, Johnson, Miami, Douglas, Shawnee, Finney, Ford, Riley, Montgomery, Crawford and Butler with approximately 30 sites trapped. This will be determined by the amount funding. Areas trapped will be high risk nurseries.
2. Positive identification data on RIFA will be entered into the state survey data base and NAPIS database when pest identification is confirmed.
3. All negative data will be entered into the state survey database and NAPIS database when it becomes available.
4. GPS coordinates will be included with trap surveys.
5. Identification and distribution data on RIFA in sites of possible introduction.

b. What criteria will be used to evaluate the project? What are the anticipated results and successes?

1. Pest detection survey completed.
2. All data collected from the pest detection surveys is entered into the state survey database and NAPIS database.
3. Maps of the pest detection survey activities are produced to aid in planning of future pest detection surveys, pathway risk analysis, and outreach activities.
4. State CAPS and KDA meetings to keep updated on issues.

c. Methodology used to determine if identified needs are met and results and benefits are achieved:

1. Review of the state survey database and NAPIS database to ensure that data from the pest detection activities have been entered.
2. Review the accomplishment reports and maps.
3. State CAPS and KDA meetings to keep updated on issues.

2. Types of data to be collected and how it will be maintained:

- a. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.
- b. Complete, accurate and timely pest survey data will be entered into NAPIS using approved protocol. The data entry requirements are:
 - Enter new national, state, and county records into NAPIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
 - Non-time sensitive records, including negative data, must be entered into NAPIS within 2 weeks of confirmation.
 - Negative data should be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay
 Survey data will be collected with GPS technology for internal pathway

analyses. Survey maps will be developed from approved GIS mapping software.

B. The Cooperator will:

- Conduct survey at sites of possible introduction.
- Document locations by GPS coordinate.
- Supply traps and GPS equipment.
- Provide KDA staff and temporary staff.
- Provide vehicle and fuel for travel for conducting trapping and collecting data.
- Provide lodging when needed.

1. By function, what work is to be accomplished?

- Trapping for the Red Imported Fire Ant at sites of possible introduction in Kansas from June through July.
- The possible counties surveyed will be Sedgwick, Johnson, Miami, Douglas, Shawnee, Finney, Ford, Riley, Montgomery, Crawford and Butler with approximately 30 sites trapped, determined by funding, at high risk nurseries.
- Survey and trapping will be done with KDA temporary staff with the training and supervision of the state entomologist.
- Collect survey results and enter into state survey database and NAPIS database.
- Identify high risk locations based on high risk nursery stock shipments and other pathways.

2. What resources are required to perform the work?

- KDA and temporary staff will conduct survey.
- Trapping supplies (marking flags, SPAM –canned meat product), microscopes, specimen vials, wide mouth jars, Filter paper, gloves, alcohol, alcohol proof pens, Ziploc bags, and insect repellent and other supplies if needed.
- GPS unit and map for location of fields.
- Rental or state vehicles are required set up and monitor traps.
- Provided by Cooperator, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit and computer with internet service. Computers will be used for entering survey data into the state survey database and NAPIS database.

3. What numbers and types of personnel will be needed and what will they be doing?

- KDA entomologist will conduct training and supervision.
- Temporary staff will conduct survey.

4. Equipment needed to perform work (\$5,000 or more):

a. Equipment provided by cooperator: N/A

b. Equipment provided by APHIS: N/A

- c. Equipment purchased in whole or part with APHIS funds:** N/A
- d. How equipment will be used:** N/A
- e. Method of disposition of the equipment upon termination of the agreement:**
N/A

5. Information technology equipment:

- Provided by KDA, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit, PDA and computer with internet service.

6. Supplies needed to perform work:

- Surveyor flags
- SPAM (canned meat product)
- Microscopes
- Vials
- Wide mouth jars
- Small shipping boxes
- Gloves
- Filter paper
- Insect repellent
- Ziploc bags
- Alcohol
- Alcohol proof pens

a. What supplies will be provided by the Cooperator?

- GPS units, digital camera, PDA and office supplies
- Microscopes

b. What supplies will be provided by APHIS?

- Outreach materials

c. What supplies will be purchased in whole or in part with APHIS funds?

- Supplies for the collection of specimens (surveyor flags, SPAM-canned meat product, vials, wide mouth jars, gloves, filter paper, small shipping boxes, insect repellent, Ziploc bags, alcohol, alcohol proof pens).
- Supplies and postage for shipping specimens.

d. How will the supplies be used?

- To collect specimens.
- Planning, implementation, data collection and data submission of surveys.
- Education of stakeholders, extension and the general public.
- Pest detection survey.
- Shipping of specimens to identifiers or labs.

- e. **What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?**
 - There should not be any.
7. **What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?**
 - The Fiscal Department at the Kansas Department of Agriculture completes most contracts.
 - Most procurements will be made by purchase.
8. **What are the travel needs for the project?**
 - a. **Is there any local travel to daily work sites? Who is the approving official? What are the methods of payment? Indicate rates and total costs in the Financial Plan.**
 - Travel will be required to survey sites by use of a KDA or rental vehicle. The KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.
 - Lodging may be required for longer distance sampling. The KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.
 - b. **What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates). Who is the approving official? What is the method of payment? Indicate rates and total cost in the Financial Plan.**
 - Six nights lodging may be required for longer distance sampling between June and July.
 - The KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.
9. **Reports:**
 - a. Submit all reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:
 1. Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
 2. Federal Financial Reports, SF-425 (replaces SF-269 October 1, 2009) in the frequency and time frame specified in the Notice of Award, Article 4.
10. **Are there any other contributing parties who will be working on the project?**
 - a. **List Participating Agency/Institution:**
KDA, USDA-APHIS
 - b. **List all who will work on the project:**
KDA and temporary staff - sampling, data entry and mapping
USDA-APHIS-PPQ-advising, funding and identification

c. Describe the nature of their effort:

Survey work, site identification and pest identification

d. Contribution:

Trapping, survey work and identification of pests

C. APHIS Will:

- Provide any new information that becomes available for the sites and pest.
- Review data.
- Provide outreach materials for the Red Imported Fire Ant.
- Provide funds to the Cooperator to cover costs outlined in the Financial Plan.
- Make arrangements for Taxonomic support in identification and sorting if necessary.
- Provide training, when necessary.

1. What equipment will be needed to perform the work? Include major items of equipment with a value of \$5,000 or more.

- a. Will Equipment be loaned or provided by APHIS?** ☐ Yes ☒ No (If Yes, please list:

- b. How will the equipment be used?** N/A

IV. GEOGRAPHIC LOCATION OF PROJECT

A. Is the project statewide or in specific counties, townships, and/or national or state parks?

The possible counties to be trapped are Sedgwick, Johnson, Miami, Douglas, Shawnee, Finney, Ford, Riley, Montgomery, Crawford and Butler with approximately 30 sites trapped, depending on funding, high risk nurseries.

B. What type of terrain (e.g., cropland, rangeland, woodland) will be involved in the project?

The type of terrain involved in this project will be public and private areas where nursery stock may have been contaminated with RIFA.

C. Are there any unusual features which may have an impact on the project or activity such as rivers, lakes, wild life sanctuaries, commercial beekeepers etc? (list all that apply)

- Severe climatic conditions require rapid trap placement and recovery schedule
- Size of the survey area and number of locations increases costs for travel and personnel time
- Trap attractant (canned meat product) increases survey costs and manpower requirements

D. Identify the kind of data to be collected:

The kinds of data to be collected will include, but not limited to, observation number, observation date, data source, state/county, site code, EPA pest code, pest status and survey method.

E. Establish criteria to evaluate the results and successes of the project:

1. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.
2. Complete, accurate, and timely pest survey data will be entered into NAPIS using approved protocol. The data entry requirements are:
 - Enter new national, state, and county records into NAPIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
 - Non-time sensitive records, including negative data, must be entered into NAPIS within 2 weeks of confirmation.
 - Negative data should be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay.
 - Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.

F. Methodology used to determine if the results and benefits are achieved:

1. Review of the state survey database and NAPIS database to ensure that data from the pest detection activities have been entered.
2. Review the accomplishment reports, supporting outreach materials (if applicable), and maps.
3. State CAPS and KDA meetings to keep updated on issues.

V) DATA COLLECTION AND MAINTENANCE

1. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.
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VI) TAXONOMIC SUPPORT

A. Person or Institution that will screen targets (Name & Contact Information)

Identification of a potential specimen will be done by:

Glenn Salsbury, State Entomologist

Kansas Department of Agriculture

105 S. Dittmann

Frontenac, KS 66763

glenn.salsbury@kda.ks.gov

OR

B. ☒ Request for taxonomic support.

Any necessary sample verifications will be done by an approved entomologist or USDA identifier.

Screened to what taxonomic group (e.g., family or genus name)?

Solenopsis invicta

VII) SIGNATURES

ROAR

Date

ADODR

Date

Detailed Financial Plan

PROJECT: Red Imported Fire Ant
COOPERATOR NAME: Kansas Department of Agriculture
AGREEMENT NUMBER: 10-8453-1227-CA
TIME PERIOD: January 1, 2010-December 31, 2010

Financial Plan must match the SF-424A, Section B, Budget Categories

ITEM	APHIS FUNDS	COOPERATOR FUNDS (Show even if zero)	TOTAL
PERSONNEL:			
KDA staff 33 hours @ \$35/hr	\$0	\$1,155	\$1,155
Subtotal	\$0	\$1,155	\$1,155
FRINGE BENEFITS:			
22% of salary of permanent employees	\$0	\$254	\$254
Subtotal	\$0	\$254	\$254
TRAVEL:			
Lodging 6 nights @ \$85/night	\$510	0	\$510
KDA staff 200 miles @ \$0.55/mile-personal vehicle usage	\$110	0	\$110
24 quarters of per diem for lodging @ \$9.50/quarter	\$228	0	\$228
Vehicle rental for 4 weeks @ \$300/week-pickup truck for use of temporary staff for sampling **	\$1,200	0	\$1,200
Subtotal	\$2,048	0	\$2,048
EQUIPMENT			
Subtotal	0	0	0
SUPPLIES			
SPAM (canned meat product)-24 cans x \$2.50/can	\$60	0	\$60
Surveyor flags	\$50	0	\$50
Vials	\$50	0	\$50
Shipping and postage for specimens	\$125	0	\$125
Alcohol, alcohol proof pens, Ziploc bags, insect repellent, gloves, wide mouth jars, filter paper, shipping boxes, etc.	\$200	0	\$200
Printing brochures	\$350	0	\$350
Fuel 3,440 miles/15mpg x \$4.00 /gallon-used for rental vehicle**	\$917	0	\$917
Subtotal	\$1,752	0	\$1,752
CONTRACTUAL			
Key staffing (160 hrs x \$20/hr)	\$3,200	0	\$3,200
Subtotal	\$3,200	0	\$3,200
OTHER			

Subtotal	0	0	0
TOTAL DIRECT COSTS	\$7,000	\$1,409	\$8,409
INDIRECT COSTS (22.58% on Total Direct Cost-salary + fringe benefits)*	\$0	\$318	\$318
TOTAL	\$7,000	\$1,727	\$8,727
Cost Share Information	83%	17%	

*Kansas' Negotiated Cost Rate (Salary + Fringe Benefits x %=Indirect Cost)

** There is a shortage of state vehicles. We give the option of renting a vehicle or using personally owned vehicles. If renting we pay for the fuel and if a personal vehicle is used we pay mileage. Some temporary staff do not live near a state contracted rental car agency or will not be working long enough to make it useful.